

Listing of Claims

The following listing of claims supersedes all previous listings of claims.

Claims 1-141 (canceled)

142. (Currently amended) A method of removing dental plaque in mammals comprising:- the step of contacting the dental plaque with a dental plaque removing effective amount of a hydrolase-hydrolytic enzyme composition comprising a mixture eomprising of enzymes isolated from Antarctic krill.

143. (Currently amended) The method of claim 142, wherein the hydrolase mixtureenzyme composition has endo-peptidase and exo-peptidase activities.

144. (Currently amended) The method of claim 142, wherein the hydrolase mixtureenzyme composition has at least two of endo-peptidase activitities a chymotrypsin, trypsin, collagenase, elastase or and an exo-peptidase activititesactivity.

145. (Currently amended) The method of claim 142, wherein the hydrolase mixtureenzyme composition comprises enzymes having molecular weights between about 24 kd and about 34 kd as determined by SDS PAGE.

146. (Currently amended) The method of claim 144, wherein the hydrolase mixtureenzyme composition has at least three of said proteolytic activities.

147. (Currently amended) The method of claim 144, wherein the hydrolase mixtureenzyme composition has all of said proteolytic activities.

148. (Currently amended) The method of claim 142, wherein the hydrolase mixturemixture of enzymes -is isolated from krill of the-a genus selected from Euphausia, Meganyctiphanes or-and TysanoessaThysanoessa.

149. (Currently amended) The method of claim 142, wherein the hydrolase mixture enzyme composition has a purity of at least about 95% with respect to macromolecules.

150. 150. (Currently amended) A-The method of removing dental plaque comprisingclaim 142, wherein:- applying an effective amount of an enzyme having multifunctional activity, wherein the enzyme the enzyme composition comprises enzymes having is isolated from krill

and has a molecular weight between about 20 kd and about 40 kd, as determined by SDS PAGE.

151. (Currently amended) The method of claim 150~~142~~, wherein the multifunctional enzyme ~~has composition comprises a purity of at least about 95% with respect to macromolecules~~ multifunctional enzyme.

152. (Previously presented) The method of claim 151, wherein the multifunctional enzyme has at least one of a chymotrypsin, trypsin, collagenase, elastase or exo-peptidase activity.

153. (Previously presented) The method of claim 152, wherein the multifunctional enzyme has at least two of said proteolytic activities.

154-156. (Canceled)

157. (Currently amended) The method of claim 152~~142~~, wherein the multifunctional enzyme ~~composition comprises an enzyme which~~ has an N-terminal sequence comprising IVGGM/NEVTPHA YPWQVGLFIDDMYF (SEQ ID NO: 17).

158. (Previously presented) The method of claim 152, wherein the multifunctional enzyme has a molecular weight between about 26 kd and about 32 kd as determined by SDS PAGE.

159. (Currently amended) A method of removing dental plaque in ~~an animal subject~~ ~~a mammal~~ comprising: contacting the dental plaque with a dental plaque removing effective amount of a poly-enzyme ~~mixture~~ ~~composition~~ comprising enzymes ~~isolated from Antarctic krill, and wherein said poly-enzyme composition comprises at least six proteins.~~

160. (Currently amended) The method of claim 159, wherein the ~~poly~~ ~~enzyme mixture~~ ~~enzyme composition~~ has endo- and exo-peptidase activities.

161. (Currently amended) The method of claim 159, wherein the ~~poly~~ ~~enzyme mixture~~ ~~enzyme composition~~ comprises enzymes having molecular weights between about 24 kd and about 34 kd as determined by SDS PAGE.

162. (New) The method of claim 142, wherein the enzyme composition comprises a pharmaceutically acceptable topical carrier.

163. (New) The method of claim 142, wherein the enzyme composition comprises a

pharmaceutically acceptable carrier.

164. (New) The method of claim 142, where the enzymes are isolated from Antarctic krill of the genus Euphausia.